*Metric System*

*aka SI units (system international)*

*Based off of units of 10*

|  |  |  |
| --- | --- | --- |
| **Mass units**  **(Scale or balance)** | **Volume units**  **(Graduated cylinder)** | **Length/Distance units**  **(Meter Stick)** |
| Milligram (mg)  1000 mg = 1 g | Milliliter (ml or cc or cm3)  1 ml = 1cc = 1cm3  1000 ml = 1 L | Millimeter (mm)  10 mm = 1 cm |
| Gram (g)  1000 g = 1 kg | Liter (l) | Centimeter (cm)  100 cm = 1 m |
| Kilogram (kg) | 1 ml = 1 cc = 1 g  (conversion from volume to mass) | Meter (m)  1000 m = km |
|  |  | Kilometer (km) |

SI unit prefixes: Kilo Hecto Deca Base Deci Centi Milli

1000 100 10 1 0.1 0.01 0.001

103 102  101 1  10-1  10-2 10-3

(King Henry Died by Drinking Chocolate Milk)

Formulas:

Area= Length x Width

Volume = Length x Width x Height OR use displacement for irregular shapes

Density = Mass/Volume

Weight ≠ Mass

Temperature Conversions: °C x 1.8 +32 = °F or °C x 9/5 +32 = °F

(°F-32)÷1.8= °C or (°F-32)÷9/5= °C